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NATIONAL
ARMED FORCES



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ENHANCING CAPABILITIES FOR FIRES COMMUNICATIONS AND INTEROPERABILITY

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AGENDA

- Importance of Advanced Fires Capabilities
- Delivering precise, longer-range fires to strike targets in the deep
- Communications and targeting
- Developing new tactics, techniques, and procedures

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IMPORTANCE OF ADVANCED FIRES CAPABILITIES

- Modern warfare increasingly requires precision and the ability to strike deep targets to neutralize strategic threats.
- The nature of warfare has evolved with advancements in technology, necessitating improved communication and interoperability for fires operations.
- Challenges:
 - Ensuring precise targeting in complex environments.
 - Overcoming communication barriers across platforms.
 - Adapting to rapidly evolving threats.





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DELIVERING FIRES TO STRIKE TARGETS IN THE DEEP

- Enhancing Precision and Range:
 - Modernization of Munitions
 - Development of extended-range guided artillery
 - Incorporation of precision guidance kits
- Targeting Enhancements:
 - Use of advanced sensors and reconnaissance drones
 - Integration with AI for target identification and prioritization
- Desired End State:
 - Increased accuracy reduces collateral damage
 - Expanded range enables strikes on deeply embedded targets





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COMMUNICATIONS AND TARGETING

- Enhancing Communications for Effective Targeting
 - Interoperable Networks:
 - Integration of multi-domain communication systems (land, sea, air, space)
 - Development of joint communication protocols to ensure data sharing
 - Real-time Data Sharing:
 - Use of satellite communication (SATCOM) for near-instantaneous updates
 - Deployment of secure, resilient communication links to withstand jamming
- Desired End State:
 - Facilitates coordination between different branches of the armed forces
 - Enhances situational awareness and decision-making





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DEVELOPING NEW TACTICS, TECHNIQUES, AND PROCEDURES

- Adapting to Modern Threats
 - Dynamic Targeting Processes:
 - AI integration and data analytics (incl. integration of predictive analytics to anticipate enemy movements)
 - Real-time adjustments to fire missions based on updated intelligence.
 - Joint and Combined Operations:
 - Development of multi-service TTPs to leverage capabilities across domains
 - Training and exercises focused on interoperability
- Desired End State:
 - Improved agility in responding to emerging threats
 - More efficient use of resources and capabilities





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SUMMARY AND NEXT STEPS

- Enhanced fires capabilities are a strategic necessity in modern warfare
- Success in future conflicts will depend on the continued development of precision munitions, precise targeting, robust communication networks, and adaptive TTPs
- NEXT STEPS:
 - Continue investments in technology and training.
 - Foster collaboration across services and with allies.



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Thank you